

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-118 (Cancelled)

119. (Original) A method for the production of a sulfur-containing phosphor powder, comprising the steps of:

- a) forming an aqueous-based solution comprising soluble precursors of a sulfur-containing phosphor;
- b) generating an aerosol of droplets from said aqueous-based solution;
- c) heating said droplets to form a particulate intermediate compound that is capable of being post-treated to form said sulfur-containing phosphor compound; and
- d) treating said particulate intermediate compound to form said sulfur-containing phosphor powder.

120. (Original) A method as recited in Claim 119, wherein said method further comprises the step of milling said phosphor powder.

121. (Original) A method as recited in Claim 119, wherein said method further comprises the step of annealing said phosphor powder.

122. (Original) A method as recited in Claim 119, wherein said particulate intermediate compound has an average particle size of from about 0.3 to about 3 μm .

123. (Previously Presented) A method as recited in Claim 119, wherein said treating step comprises the step of heating said phosphor powder in contact with sulfur or a sulfur-containing compound.

124. (Previously Presented) A method as recited in Claim 119, wherein said treating step comprises the step of heating said phosphor powder in contact with H₂S gas at a temperature and for a time sufficient to form said sulfur-containing phosphor powder.

125. (Original) A method as recited in Claim 119, wherein said sulfur-containing phosphor is selected from the Group 2 and Group 12 metal sulfides.

126. (Original) A method as recited in Claim 119, wherein said sulfur-containing phosphor is a thiogallate.

127. (Original) A method as recited in Claim 119, wherein said aqueous-based solution further comprises a precursor to an activator ion.

128-239 (Cancelled)

240. (Previously Presented) A method as recited in Claim 119, wherein said sulfur-containing phosphor is CaS.

241. (Previously Presented) A method as recited in Claim 119, wherein said sulfur-containing phosphor is ZnS.

242. (Previously Presented) A method as recited in Claim 119, wherein said sulfur-containing phosphor is Y₂O₂S.

243. (Cancelled)